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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,168	12/11/2003	Jiping Sun	67,114-004	5950
26096	7590	11/15/2007		
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD SUITE 350 BIRMINGHAM, MI 48009			EXAMINER GODBOLD, DOUGLAS	
			ART UNIT 2626	PAPER NUMBER
			MAIL DATE 11/15/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/733,168	Applicant(s) SUN ET AL.	
	Examiner Douglas C. Godbold	Art Unit 2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 2 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>20031211</u> . | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. This Office action is in response to the correspondence filed August 30, 2007 in reference to application 10/733,168 filed December 11, 2003. Claim 2 is pending in the application and has been examined.

2. The instant application contains the following number of claims:

Number of independent claims: 3.

Number of total claims: 3.

Number of elected independent claims: 1.

Number of total elected claims: 1.

***Election/Restrictions***

3. Applicant's election without traverse of claim 2 in the reply filed on August 30, 2007 is acknowledged.

***Information Disclosure Statement***

4. The Information Disclosure statement filed December 11, 2003 has been considered and accepted in this office action.

***Priority***

5. This application claims priority to provisional US application 60/432,521 filed December 11, 2002. This priority date has been accepted and considered in this office action.

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Sun et al (A Robust Speech Understanding System Using Conceptual Relational Grammar; page numbers will refer too by the BOLD numbers on the generated HTML page from the PDF).

8. Consider claim 2, Sun teaches a fuzzy grammar rule derivation system to learn fuzzy grammar from corpora (Grammar rules are derived from a corpus; page 2, column 2, line 8.) comprising:

a shallow parsing algorithm, which assigns syntactic categories to words (words are assigned syntactic categories; page 2, column 2, line 32.) and segments a sentence into syntactic phrases (Chart in page 2 column 2 shows a sentence that has been segmented into syntactic phrases.);

a syntactic weight assignment algorithm, which assigns syntactic weight to context vectors according to their relative importance to a concept (Section 3.2 teaches how rules are derived. Here a position is assigned to the context words, which extend out 3 words in each direction. As it is clear from the fact that only 3 words in each direction are considered, the further out from the word, the less important the context. Therefore the position vector is in fact an importance weighting.); and

a statistical parameter calculation algorithm, which assigns frequency and differentiation parameters to context vectors of concepts (page 3, bottom of column 1, top of column 2, conceptual relations are listed with the frequencies and the pairing of the different contexts are differentiation parameters that define eat rule pair. Frequencies is a statistical parameter. ).

### ***Conclusion***

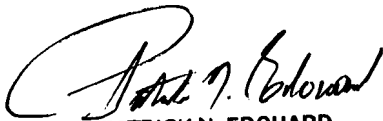
9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is listed on the Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas C. Godbold whose telephone number is (571) 270-1451. The examiner can normally be reached on Monday-Thursday 7:00am-4:30pm Friday 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DCG

  
PATRICK N. EDOUARD  
SUPERVISORY PATENT EXAMINER